KH 401
MULTI-LIFT

OPERATING, MAINTENANCE & CLEANING MANUAL

Certified ISO 9001 by BVQI
n° 89726

Kerry Equipment™
A Hills Company
KEIM - 011

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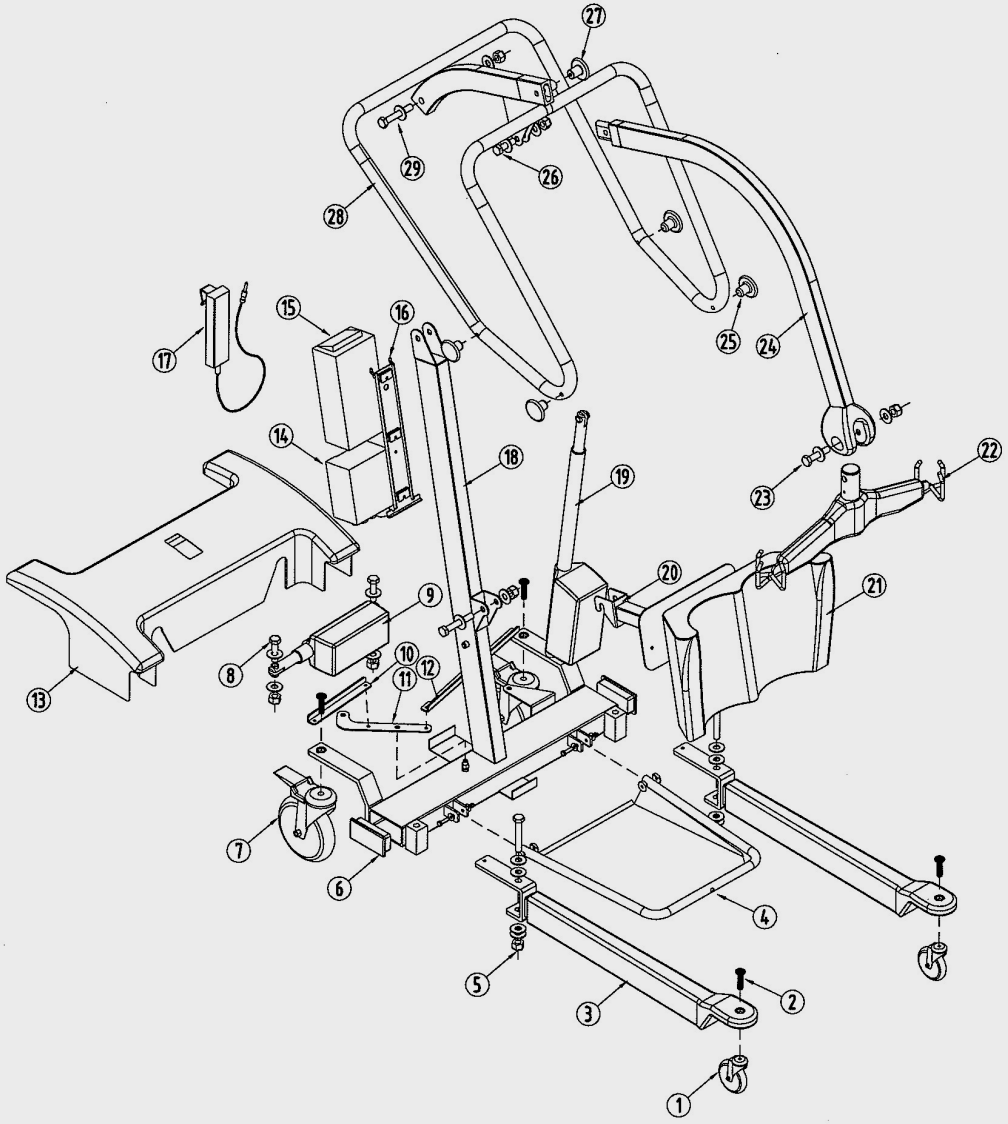
SPECIFICATIONS

DIMENSIONS:	Length	1100mm
	Width	670mm
	Height	1220mm
	Effective lift range	430mm – 1700mm
	Leg gating (inside)	510mm – 885mm
	Lift reach	700mm
	Base height	210mm
	Leg height from floor	160mm
	Turning radius	1300mm
LIFT SPEED:	Slow - 38mm per second	
	Fast - 58mm per second	
LIFT DRY WEIGHT:	42 Kg (with battery)	
REMOVABLE BOOM:	4.75Kg	
REMOVABLE KNEEPAD:	4.40Kg	
LIFT CAPACITY:	Max load - **150kg's**	
CASTORS:	Ø150 Total lock rear polyurethane castor	
	Ø100 Swivel front polyurethane castor	
	Note: Smaller castors available on request.	
FINISH:	Epoxy powder coated	
	Polyurethane legs and yoke	
	PVC cover, and upholstery kneepad	
ELECTRICAL ITEMS:	Tested by Linak Australia to standards:-	
	AS 3108-1990	
	AS 3200.1-1990	



KH 401 MULTI–LIFT PATIENT HOIST

ITEM	PART NUMBER	DESCRIPTION
1	3PUSB10M	ø75 POLY SINGLE WHEEL SWIVEL
2	ZMCS711	CASTOR BOLT SET
3	400L	LEG ASSEMBLY
4	KH401-09	TILT UP FOOT PLATE SET
5	ZH820	LEG PIVOT BOLT SET
6	P100X50	BASE END CAPS
7	5GTBB10M	ø125 G/R T/LOCK BHM110
8	ZH710	GATING ACTUATOR BOLT SET
9	LA28.2-060-24-001	LEG GATING ACTUATOR
10	40TRS	SMALL TIE ROD
11	40LGL	LEG GATING LEVER
12	40TRL	LARGE TIE ROD
13	401PC	PLASTIC BASE COVER
14	CBJ1-00-2A-H5-01	CONTROLLER WITH EMERGENCY STOP
15	BAJ1-00-01	BATTERY
16	MBJ2	MOUNT BRACKET BATTERY/CONTROLLER
17	HB53J-00-11	HAND SET WITH LEG GATING
18	401-02	BASE AND MAST ASSEMBLY
19	LA32JKSM-300-24-32	300mm LIFT ACTUATOR
20	401-04	REMOVABLE KNEE PAD ASSEMBLY
21	UPH400	KNEE PAD
22	40Y	YOKE
23	7H710	YOKE PIVOT BOLT SET
24	401-06	BOOM END
25	400SCK	SLING CONECTION KNOB
26	ZH816M	ACTUATOR BOLT SET
27	608DSK	SPRING BUTTON KNOB
28	401-06	BOOM BASE AND GRAB HANDLE
29	BB12+PVC	BOOM PIVOT BOLT SET

SAFETY PRECAUTIONS.

For safety precautions only properly trained personal should use the hoist.

1. The KH 401 Multi-lift is manufactured and tested with safety and function for the carer and patients as the utmost importance. No parts should be removed from the hoist without approval as this may create an unsafe working condition.

2. The **MAXIMUM** safe working load is **150 Kg's.**

3. EMERGENCY LOWERING/RAISING: The emergency lowering/raising buttons can be used to lower/raise the hoist if there is a handset failure. The switches are located on the controller under the big red emergency stop switch. Simply press using a ballpoint pen or similar object, DO NOT use a sharp object such as a compass point.

4. Always use the correct slings on the hoist.

5. The hoist should not be used on rough or sloping surfaces. ie. Wheel chair ramps etc, and does not recommend that the hoist be used outdoors.

OPERATING INSTRUCTIONS

1. INSTALLATION OF BATTERY PACK.
   Before the Multi-Lift Hoist can be operated the battery pack will need to be placed on charge (See - Charging Battery Instructions). When the battery pack is fully charged, remove the battery from the charger and place it on the hoist. Simply locate the battery on the mounting bracket and clip the release lever into the secure position. The Hoist is now ready for use. (fig 1)

Fig 1.

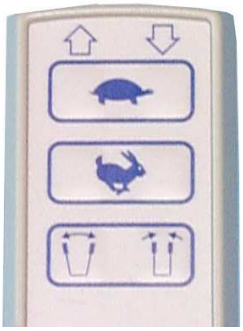


Fig 2.

2. HANDSET:

2.1 RAISE/LOWER:
   The Hoist operates via a hand controller. To raise or lower the hoist, simply press the required switch on the touch pad.
   There are four switches on the hand controller for raising and lowering. The top two switches are for slow normal operation (tortoise); the middle two switches are for faster operation (hare). Simply choose the speed that suits your application. (fig 2)

3. LEG GATING:
   To OPEN or CLOSE the "Gate" on the legs, simply press the hand controller with the required function. (The lower set of switches operates the leg "gate"). Open on the left, close on the right.

4. YOKE - SLING MOUNTING POINTS (fig 3)
Refer to the fitting instructions supplied with your chosen sling.(fig 15)

Fig 3.

BATTERY CHARGING AND CARE

1. MOUNTING OF THE CHARGING UNIT
It is recommended that the charging unit be mounted on a wall out of the way of normal traffic, at approximately waist high, close to an electrical outlet. This will help in easy attachment and removal of the battery when charging is required.

2. CHARGING
Before the Hoist can be operated the battery pack will need to be charged. Minimum 4 hours for flat battery. Please follow the instructions below.

2.1 Plug the charger unit into the 240-Volt supply outlet. The unit is now ready to accept a battery that requires charging; a GREEN L.E.D. (ON) will be displayed. (fig 10)
2.2 To charge the battery, simply locate the battery on the mount bracket and clip into position. (The GREEN and ORANGE L.E.D. on the front of the charger will be displayed). The battery is fully charged when the ORANGE L.E.D. is OFF and only the GREEN L.E.D. is displayed.
2.3 If a two-battery system is going to be used, replace the first battery once charged, with the second battery. Charge as above.

NOTE: A battery pack may remain on charge indefinitely without any detrimental effects to the battery or charging unit.

Fig 10 Charger unit without battery.

3. BATTERY CARE

The batteries are fully sealed lead acid batteries, which should be recharged on a regular basis. To care for your batteries and obtain the maximum life **DO NOT** allow the batteries to run totally flat before recharging.
The controller is fitted with an **audio low battery warning alarm**. When this warning alarm sounds complete the lift process, then change the battery and recharge. Kerry Equipment recommends that a 2-battery system be used; this allows one battery to always be on charge while the other is in use, and hence the hoist may never be out of service with a flat battery.

MAINTENANCE INSTRUCTIONS

LUBRICATION

The Hoist requires periodical lubrication. These points are:

1. CASTORS
It is always best practice to remove all hair and lint from the castors as soon as possible, always allowing free movement of all the wheels.
The head bearing will need lubricating monthly. Simply spray TAC-2 up into the bearing while rotating the castor.(fig 11)
The wheel also requires lubricating every month. To do this the wheel must be unbolted and removed from the castor frame. TAC-2 can then be sprayed into the hub centre to lubricate the internal bearings. (fig 12)

Fig 11.

Fig 12.

2. BASE PIVOT POINTS
All pivot points will need to be lubricated monthly with TAC-2 or similar lubricant.
Simply spray the recommended points for 2 seconds on either side.
The hoist has to be turned onto its side for access to the following lubrication points. (To do this 2 people are required.)

Follow the instruction below:

2.1 Both people are to stand on one side of the hoist. One near the push handle, the other by the side of the hoist.

2.2 The person near the push handle locks the total lock castors.

2.3 In conjunction with one another pull the hoist towards the side, lowering the hoist onto the floor.

You now have access to all the lubrication points under the base. ie: pivot points, leg lever and leg pivot. Simply spray TAC-2 on all the pivot points for 2 seconds.

3. Leg Actuator Pivots (fig 13)
Leg Pivots
Tie Rod Pivot Points

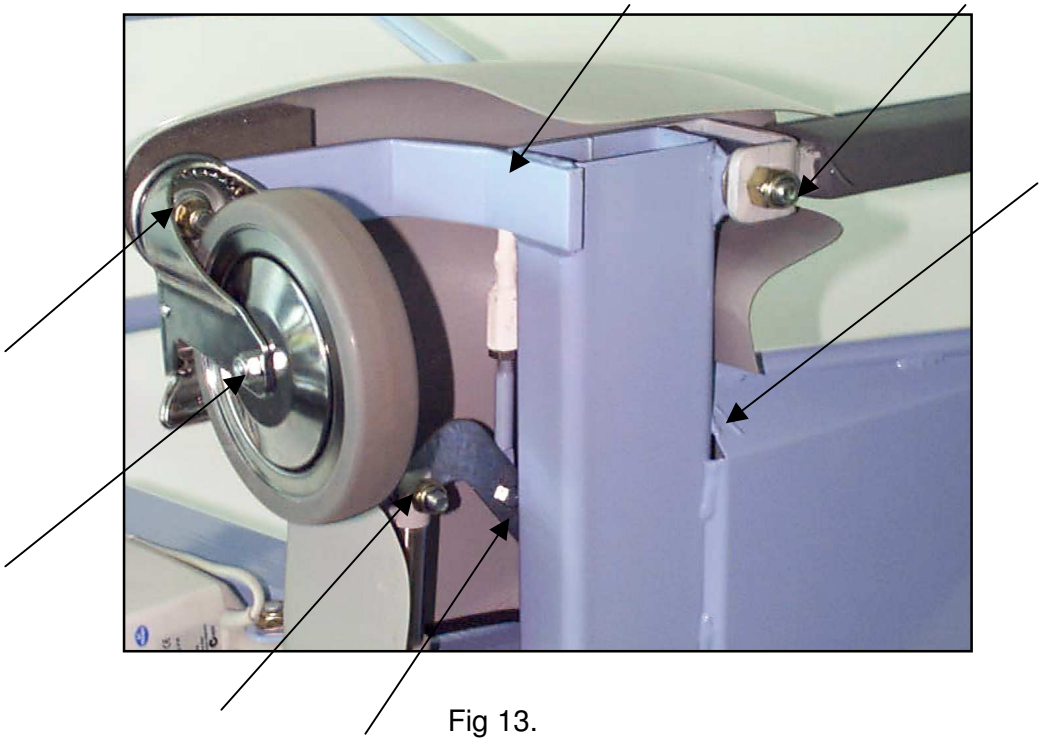


Fig 13.

4. ARM, ACTUATOR and SPRING PIN LUBRICATION POINTS
The arm pivot points will need to be lubricated monthly with TAC-2 or similar lubricant (fig 14.). Simply spray on each side of the recommended points as required. The boom removable socket and spring button/pin will also need lubricating as required.

4.1 Arm Pivot
Boom Socket/Pin
Actuator Pivots

Boom spring button/pin

Actuator pivot

Lower Actuator pivot

Fig 14.

TAC-2 is a CRC product and is available from most automotive outlets or from Kerry Equipment.

ASSEMBLY / DISASSEMBLY INSTRUCTIONS

Kerry Equipment fully assembles their hoist prior to delivery. Kerry Equipment only recommends qualified service personal to work or service any of their hoists. Any assembly or disassembly should be checked with Kerry Equipment and or Distributor before commencing with any repair.

GENERAL CLEANING

1. The hoist can be cleaned with a low strength detergent, warm water and a soft textured cloth. This includes all Epoxy powder coated framework, PVC cover, polyurethane legs, kneepad and yoke.

2. CAUTION
   Do not immerse any parts in water.
   Do not allow water/cleaning liquid to enter the battery or controller.
   Clean up spills immediately.

3. SLING CARE
   Protect from direct sunlight.
   Repair any cuts or fraying immediately.
   Slings are machine washable.
   Please refer to care instructions on the sling.

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